

TT-63-23955

Fillnov, M. V. and Charnyl, I. A.
APPROXIMATE METHOD OF CALCULATION FOR
FORCING GAS INTO A WATER BEARING LAYER
AND COMPARISON OF THIS METHOD WITH SOME
EXACT SOLUTIONS. [1963] [5p] 5refs.

C. E. Trans. 2736.

Order from OTS, SLA, or ETC \$1.10 TT-63-23955

Trans. of Akademiya Nauk SSSR. Otdelenie
Tekhnicheskikh Nauk. [Izvestiya]: Energetika i
Avtomatika, 1959, no. 1, p. 100-103.

DESCRIPTORS: *Gases, Injection, Geology, Storage,
Water, Fluid flow, *Hydrodynamics, Hydraulic
research,

(Mechanics--Hydrodynamics, TT, v. 11, no. 5)

- I. Fillnov, M. V.
- II. Charnyl, I. A.
- III. CE Trans-2736
- IV. Central Electricity
Generating Board
(Gr. Brit.)

NLL (LOAN) Ref.
92229 1963 (2736)

Office of Technical Services

On the Transmission Capacity of A Multi-path Information System, by I. A. Ovseevich, M. S. Pinsker.

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Aug 59

93, 843

Conference on the Theory and Application of Discrete
Automatic Control Systems, by I. S. Morozanov.

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3 pp.

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JPRS-L-1117-X

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(NY-3505/1).

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3.1 - 10

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Gas Turbine Building, by I. P. Stul'nikov,
4 pp.

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Energetika i Avtomatika, No 1, 1959, pp 144, 145.

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Lower Branch of Hugoniot's Curve as a Set of
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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Energetika i Avtomatika, No 2, 1959, pp 3-12.

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Sci - Engr

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Structure of Turbulent Flame of Homogeneous and
Heterogeneous Mixtures, by V. Ya. Pasevich, S. M.
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Energetika i Avtomatika, No 2, 1959, pp 13-20.

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Sci - Chem
Nov 59

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TURBULENT SPEED OF FLAME PROPAGATION,
by L. S. Kozachenko, 4 pp. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
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Sci - Phys OTS 62-11464
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No 2, 1959, pp 48-56.

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(NY-3905/1).

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Parameters, by Yu. M. Kozlov, 10 pp.

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JPRS-L-1117-N
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The Application of the Oscillation Index to the
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(NY-3905/1).

Accelerated Testing of the Reliability of Electrical
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7 pp.

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Feb 60

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Calculation of Bodies in Supersonic Flow, by G. A.
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MOF K-174

RAE 669 103,480

(DC-3696)

Nikolay Vasil'yevich Mel'nikov, Corresponding Member
of the Academy of Sciences USSR, by L. D. Shevyakov,
L. H. Marchenko, 3 pp

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JPRS 3846

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The Five-Year Plan and Goals in the Technical
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Jan 63

(NY-3098)

On the Theory of Inertial Damped Systems With an
Arbitrary Period, Which Are Invariant With Respect
to the Object's Maneuvering, by V. A. Bodner,
V. P. Seleznev, V. Ye. Ovcharov, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
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Transient Processes in Optimal Control Systems,
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Avtomatika, No 3, 1959, pp 32-42.

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The Dynamics of Continuous Optimizing Control
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JPRS 12984

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22919 DC
21 Apr 69 SF

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Energiya i Avtomat, No 3, 1959, pp 90-94.

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The Theory of the Transient (Unsteady) States of
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1959, No 3, pp 95-99.

TIL/T. 5224

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Connection Between the Flame Temperature Measured by
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3 pp.

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MDF V-151

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JPRS-2028-N

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The Use of Biocurrents for Control Purposes, by A.
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A Comparison of Systems' Reliability in the
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the System as a whole, by Kh. L. Smolitskiy, P. A.
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Large Capacity Logic Machine for Relay Circuit
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On Codes Which Limit the Range of Error, by M. Ye.
Kirillov, 4 pp.

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Dec 59

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Contemporary Methods of Examining Transients in
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Kostenko.

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MLL M. 3232

OTS 62-15,248

Sci - Engr

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Apr 62

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#FTD-TT-61-138

Sci - Engr

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Popov, Ye. P.

THE INFLUENCE OF OSCILLATORY DISTURBANCES ON THE STABILITY AND DYNAMIC CHARACTERISTICS ON NON-LINEAR AUTOMATIC SYSTEMS (Vliyaniye Vibratsionnykh Pomekh na Ustoychivost i Dinamicheskiye Kachestva Nelineynykh Avtomaticheskikh Sistem). Apr 61 [18]p. 4 refs. RTS 1749.

Order from OTS or SLA \$1.60

61-19793

Trans. of Academiya Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, Izvestiya Energetika i Avtomatika, 1959, no. 4, p. 97-105.

DESCRIPTORS: *Automatic volume control, Stability, Oscillation.

Unlike the linear systems, introduction of oscillation in the useful signal may change substantially the gain of the non-linear useful signal link. As a result of this, the expected static and dynamic characteristics (Engineering--Electronic, TT, v. 6, no. 3) (over)

61-19793

I. Popov, Ye. P.

II. RTS-1749

III. Department of Scientific and Industrial Research (Gt. Brit.)

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Office of Technical Services

On Designing Self-Adaptive Systems With Two-Step
Control of the Parameters, by Yu. M. Kozlov.

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Jun 60

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TIL 4257

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DIELECTRIC. [1960] 15p. 22 refs.
Order from MDF \$8.00

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Trans. of A[kademiya] N[auk] SSSR. O[tdeleniye]
T[ekhnicheskikh] N[auk]. Izv[estiya]: Energ[etika] i
Avto[matika] 1959, no. 4, p. 166-176.

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61-12169

1. Electromagnetic waves--
Propagation
2. Helixes--Electromagnetic
properties
3. Dielectrics--Electro-
magnetic effects
- I. Bulgakov, B. M.
- II. Shestopalov, V. P.
- III. MDF B-171
- IV. Friedman, Morris D., Inc.,
West Newton, Mass.

9076085

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Mechanism of Initiation of Detonation in
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RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
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NIL M.4610

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May 62

(DC-3158).

The Determination of Invariant Signs of Stop
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JPRS - 2122-N

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Oct 59

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JPRS-2122-N

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Jan 60

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Shchelkin, K. L.

A POSSIBLE METHOD OF AMPLIFYING WEAK SHOCK WAVES IN A TURBULENT COMBUSTION ZONE (THEORY OF HIGH-FREQUENCY COMBUSTION ZONE) tr. by R. P. Illwitzer, 28 Nov 60, 17p. 4 refs. APL/JHU TG 230-T200. Order from OTS \$0.50

61-11191

Trans. of Akademiya Nauk SSSR, Otdeleniye Tekhnicheskikh Nauk, Energetika i Avtomatika, 1959, no. 5, p. 36-50. Another translation is available from MDF \$8.50 as MDF S-169 [1960] 16p.

The relation of the dimensionless pressure differential in a shock wave to a dimensionless increase in burning velocity is derived for an idealized rocket combustion chamber. It is shown that the passage of a weak shock wave through the combustion zone causes an increase in the turbulent flame propagation rate. From these considerations the criterion for amplification of weak (Chemistry--Physical, TT, v. 5, no. 12) (over)

61-11191

1. Flame propagation--Theory.
2. Shockwaves--Theory
3. Combustion--Turbulence
1. Shchelkin, K. L.
- II. APL/JHU TG-230-T200
- III. Applied Physics Lab., Johns Hopkins U., Silver Spring, Md.
- IV. Contract NOrd-7386
- V. Title: Theory...

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Kadymov, Ya. B.

THE APPLICATION OF THE DISCRETE LAPLACE
TRANSFORMATION TO THE INVESTIGATION OF
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[19(1)] [12] p. 2 refs.

Order from LC or SLA m\$2.40, ph\$3.30 61-10762

Trans. of Akademiya Nauk SSSR. Otdeleniye
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The problem is considered of computing the transient response of the telegraph equation. For the special case without losses a simple representation was obtained that readily permits calculation of the "output" at any station at any preselected time. In the general case the exact result is given in terms of the sum of Bessel functions. For engineering purposes this sum is approximated by a simpler expression which yields satisfactory results.

(Engineering--Electrical, TT, v. 5, no. 9)

61-10762

1. Transformations
(Mathematics)--Applications
2. Differential equations--
Theory
3. Communication systems--
Mathematical analysis
4. Title: Telegraph equations
1. Kadymov, Ya. B.

151847

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Influence of Error in Relative-Increase
Characteristics on Effect of Optimum Load
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Kartvelishvili.

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NLL M. 3020.

SLA 61-27579

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The Design of Maximum-Capacity Turbo-Generators,
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NLL M. 3352

Sci - Electron

Apr 62

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No 14

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On the Similarity Between Combustion in a Detonation
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K. Troshin, K. I. Shchelkin, 17 pp.

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JPRS 3321

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No 36, 7, 1960

No 14

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On the Dynamics of a System of Control Which Includes
Inertial Coordinate Measuring Instruments, by V. A.
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JPRS 3322

Sci - Engr
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No 1/4

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A System for Determining the Parameters of the
Motion of a Body in Space, by G. O. Fridlender,
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JPRS 3323

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No 14

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On the Study of the Shelf-Life of Components of
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Energet i Avtomat, No 6, 1959, pp 141-150.

JPRS 3324

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(00-4007)

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RUSKIAN, p. 1, Is An Park SSSR, Obol-Teknik
Shirobina, A. Antonov, No 6, Nov/Dec 1979.
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JPRS 3654

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Aug 60

(NY-3000/11)

Basic Problems in the Fuel and Power Balance of the
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JPRS 5047

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Determination of Medium Parameters of a
Turbulent Torch Flame, by A. G. Prudnikov, 23 pp.
UNCL

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Ener i Avtom, No 1, 1960, pp 43-56.

ACSI E-8304
ID 2161136

MDF P-156

Sci - Phys
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Use of a Twisted Stream to Intensify Convective Heat
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V. K. ~~Y~~ermolin, 10 pp.

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Energ i Avtomat, No 1, 1960, pp 55-61.

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Selection of Efficient Heating Surfaces for
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by L. G. Gel'tenbeyn, 24 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
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On a Measure of the Orderliness of a Boolean
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RUSSIAN, per, Izvestia AN USSR, EN OTN, Energi. i
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Sci - Electronics

Nov 60

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On the Theory of Unperturbed Systems With
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Nauk, Energ i Avtomat, No 1, 1960,
pp 84-95. 9673049

FTD-TT-61-65

Sci - Phys

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182, 616

15 Feb 62

Shul'ga, N. G.

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ALLOYS. [1960] 10p. 9 refs.
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Sci - Phys

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DESCRIPTORS: *Signals, Detection, Reproduction,
Noise, Statistical processes, *Probability, *Control
systems.

A method is described for determining the optimum system from the general Bayes criterion in the case when the input observed function and the signal being (Engineering--Electronic, TT, v. 6, no. 10) (over)

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DESCRIPTORS: *Control systems, Automatic, *Pulse modulation, Stability, *Harmonic analysis, Nonlinear systems, Functions, Bessel functions, Fourier analysis, Data, Sampling.

A harmonic analysis is presented of the modulator output for a sinusoidal input. This output is represented (Engineering--Electronic, TT, v. 7, no. 9) (over)

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